

1. SOBOLEV, G. G.
2. USSR (600)
4. Technology
7. Assembling of electric equipment of transformer sub-stations of industrial enterprises, Moskva, Gos. izd-vo lit-ry po stroit. arkhitekt., 1952.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

Sobolev, I.I.

KUZ'MICH, A.S., redaktor; BARABANOVA, F.A., redaktor; BOBROV, I.V., redaktor;
VLADIMIRSKIY, V.V., redaktor; GRAFOV, L.Ye., redaktor; DOKUKIN, A.V.,
redaktor; YERASHKO, I.S., redaktor; ZABLODSKIY, G.P., redaktor; ZADE-
MIDKO, A.N., redaktor; ZAYTSEV, A.P., redaktor; ZASADYCH, B.I., redak-
tor; KAGAN, F.Ya., redaktor; KRASNIKOVSKIY, G.V., redaktor; KRIVONOGOV,
K.K., redaktor; LALAYANTS, A.M., redaktor; MELAMED, Z.M., redaktor;
MINDELI, E.O., redaktor; MOGILEVSKIY, N.M., redaktor; OSTROVSKIY, S.B.,
redaktor; POPOV, T.T., redaktor; SKOCHINSKIY, A.A., redaktor; SKURAT,
V.K., redaktor; SOROLEV, G.G., redaktor; STUGAREV, A.S., redaktor;
SUMCHENKO, V.A., redaktor; TERPIGOREV, A.M., redaktor; SHEVYAKOV, L.D.,
redaktor; SHELKOV, A.A., redaktor; ANDREYEV, G.G., tekhnicheskiy redaktor

[Safety regulations in coal and shale mines] Pravila bezopasnosti v
ugol'nykh i slantsevykh shakhtakh. Moskva, Ugletekhizdat, 1953. 226 p.
(MLRA 8:4)

1. Russia (1923- U.S.S.R.) Ministerstvo ugol'noy promyshlennosti.
(Coal mines and mining--Safety measures)

MAREVICH, Nadezhda Viktorovna; SOBOLEV, G.G., redaktor; GRISHAYENKO, M.I.,
redaktor; IL'INSKAYA, G.M., *tekhnicheskiy* redaktor

[Spontaneous combustion of thick coal seams in the Prokop'ev
deposit, Kuznetsk Basin] Samovozgoranie uгля moshchnykh plastov
prokop'evskogo mestorozhdeniya kuzbassa. Moskva, Ugletekhnizdat,
1955. 135 p. (MLRA 9:2)
(Kuznetsk Basin--Coal mines and mining) (Combustion, Spontaneous)

PUGACH, Isay Markovich; POLESIN, Yakov Lazarevich; SHUB, Yevsey Yefimovich;
SOBOLEV, G.G., redaktor; GRICHAYENKO, M.I., redaktor; ALADOVA, Ye.I.,
tekhnicheskii redaktor; PROZOROVSKAYA, V.L., tekhnicheskii redaktor.

[Mine rescuing and the prevention of mine accidents] Gornospasatel'noe
delo i preduprezhdenie shakhtnykh avari. Moskva, Ugletekhizdat, 1955.
398 p. (MLBA 9:4)

(Mine rescue work)

SOBOLEV, G.G., inzhener.

Fire prevention in coal mines. Bezop.truda v prom. 1 no.5:3-7
'57. (MIRA 10:7)
(Coal mines and mining--Fires and fire prevention)

SOBOLEV, G.G.

SOBOLEV, G.G., inzh.

Safety departments in mines in the U.S.S.R. Bezop.truda v prom.
1 no.11:10-13 N '57. (MIRA 10:10)
(Mining engineering--Safety measures)

SOBOLEV, G.G., gorn. inzh.; MESHCHERYAKOV, Ya. M., gorn. inzh. [deceased];
NIKOLAYEV, V.F., otv. red.; ALADOVA, Ye.I., tekhn. red.; LOMILINA,
L.N., tekhn. red.

[Tactics of regimented mine rescue units] Taktika voenizirovannykh
gornospasatel'nykh chastei pri vedenii gornospasatel'nykh rabot
v shakhtakh. [Moskva] Ugletekhizdat, 1958. 347 p. (MIRA 11:12)
(Mine rescue work)
(Coal mines and mining--Safety measures)

SOBOLEV, G.G., inzh.

Mine accident prevention. Bezop. truda v prom. 2 no.7:3-7
MIRA 11:9)
Jl '58.
(Mining engineering--Safety measures)

SOBOLEV, G.G.; MIKHALENKOV, S.P., otv.red.; GRISHAYENKO, M.I., red.
izd-va; SHKLYAR, S.Ya., tekhn.red.

[Mine rescue work] Gornospasatel'noe delo. Moskva, Ugletekh-
izdat, 1959. 79 p. (MIRA 12:11)
(Mine rescue work)

SOBOLEV, Georgiy Georgiyevich; SLAVOROSOV, A.Kh., red.izd-va;
SHKLYAR, S.Ya., tekhn.red.

[Organization of mine rescue work] Organizatsiia gorno-
spasatel'nykh robot. Izd.3., perer. i dop. Moskva, Ugle-
tekhizdat, 1959. 269 p. (MIRA 12:8)
(Mine rescue work)

ABRAMOV, F.A., prof., doktor tekhn.nauk; BALTAYTIS, V.Ya., inzh.;
 BARON, L.I., doktor tekhn.nauk; BATALIN, S.A., dotsent, kand.
 tekhn.nauk; BYKOV, L.N., prof., doktor tekhn.nauk; VESELOVSKIY,
 V.S., prof., doktor tekhn.nauk; VLADIMIRSKIY, V.V., kand.tekhn.
 nauk [deceased]; VORONIN, V.N., doktor tekhn.nauk [deceased];
 VORONINA, L.D., kand.tekhn.nauk; VOROPAYEV, A.F., prof.,dokt.tekhn.
 nauk; ZHUKOV, G.I.; KOMAROV, V.B., prof., doktor tekhn.nauk;
 KRICHEVSKIY, R.M., kand.tekhn.nauk; KSENOFONTOVA, A.I., dotsent,
 kand.tekhn.nauk; LIDIN, G.D., doktor tekhn.nauk; MILETICH, A.F.,
 dotsent, kand.tekhn.nauk; MUSTEL', P.I., dotsent, kand.tekhn.
 nauk; NOVIKOV, K.P., kand.tekhn.nauk; OGIYEVSKIY, V.M., prof.,
 doktor tekhn.nauk [deceased]; POLESIN, Ya.L., inzh.; RIPP, M.G.,
 dotsent, kand.tekhn.nauk; SOBOL'EV, G.G., inzh.; SOLOV'YEV, P.M.,
 inzh.; SUKHAREVSKIY, V.M., kand.tekhn.nauk; KHEYFITS, S.Ya.,dotsent.
 (Continued on next card)

SOBOLEV, G.G.; inzh.

Eliminate causes for undergrounds fires. Bezop. truda v prom. 3 no.6:
9-11 Je '59. (MIRA 12:10)

(Mine fires)

SOMOLEV, G.G., inzh.

Intensify the introduction of improved respirators. Bezop.
truda v prom. 4 no.9:7-10 S '60. (MIRA 13:9)
(Respirators)

SOBOLEV, Georgiy Georgiyevich; POLESIN, Ya.L., otv. red.; RYKOVA, Z.L.,
red.; PRONINA, N.D., tekhn. red.

[Developing plans for preventing accidents in coal mines] Opyt
razrabotki planov likvidatsii avarii dlia ugol'nykh shakht. Mo-
skva, TSentr. in-t tekhn. informatsii ugol'noi promyshl., 1962.
62 p. (MIRA 16:1)

(Coal mines and mining--Safety measures)

IZRAITEL', S.A., otv. red.; MOISEYEV, S.L., otv. red.; SKURAT, V.K.,
otv. red.; SLASTUNOV, V.G., otv. red.; ZAYTSEV, A.P., red.;
POLESIN, Ya.L., red.; SKURAT, V.K., red.; SLASTUNOV, V.G., red.;
SOBOLEV, G.G., red.; FEOKTISTOV, A.T., red.; MIROSHNICHENKO,
V.D., red. izd-va; BOLDYREVA, Z.A., tekhn. red.

[Unified safety rules for mining metalliferous, non-metallic, and
placer deposits by the underground method] Edinye pravila bez-
opasnosti pri razrabotke rudnykh, nerudnykh i rossypnykh mesto-
rozhdenii podzemnym sposobom. Moskva, Gosgortekhzdat, 1962. 253 p.
(MIRA 15:12)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyy komitet po nadzoru za
bezopasnym vedeniem rabot v promyshlennosti i gornomu nadzoru.
(Mine safety)

YEGOROV, Valeriy Aleksandrovich; SOBOLEV, G.G., otv. red.;
VINOGRADOVA, G.V., red. izd-va; MAKSIMOVA, V.V., tekhn.
red.; LAVRENT'YEVA, I.G., tekhn. red.

[Ways and means of preventing underground accidents] Spособы i priemy likvidatsii podzemnykh avarii. Moskva, Gosgortekhnizdat, 1963. 83 p. (Mine safety) (MIRA 16:7)

BOYKO, A.A., inzh.; DRUKOVANYI, M.F., kand. tekhn. nauk; BABOKIN, I.A., inzh.; ZAYTSEV, A.P., inzh.; POLESIN, Ya.L., inzh.; SOBOLEV, G.G., inzh.; ZHUKOV, V.V., kard. tekhn. nauk; TOPCHIEV, A.V., prof.; VEDERNIKOV, V.I., kand. tekhn. nauk; OKHRIMENKO, V.A., kand. tekhn. nauk; MELAMED, M.Z., kand. tekhn. nauk; KUZNETSOV, K.K., inzh.; RABINOVICH, I.A.; YASNYI, V.K., inzh.; LIVSHITS, I.I., kand. tekhn. nauk, rersenzent; BARANOV, A.I., inzh., retsenzent; LOMILINA, L.N., tekhn. red.

[Brief handbook of a coal mining engineer] Kratkiy spravochnik gornogo inzhenera ugol'noi shakhty. Moskva, Gosgortekhnizdat, 1963. 639 p. (MIRA 17:3)

ACC NR: AR7000946 SOURCE CODE: UR/0275/66/000/011/A016/A016

AUTHOR: Sobolev, G. H.; Soboleva, A. V.

TITLE: Some specific features of the mechanism of changing the frequency by voltage in solid-plate magnetrons

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 11A113

REF SOURCE: Sb. Vopr. elektron. sverkhvysok. chastot. Vyp. 2, Saratov, Saratovsk, un-t, 1966, 116-128

TOPIC TAGS: magnetron, electron energy, frequency change, solid plate magnetron

ABSTRACT: The tubes investigated differ in the design of the output terminal (O). The latter has the shape of a slot with a strip line in the glass version, or of a symmetrical crown in the metallic version. The following results were obtained:
1) in all the tubes, the dependence of frequency on voltage is of a linear nature. Frequency changes can be made within a wide range. Measurements with a matched load, yield oscillations of one made in tubes with pin type output terminals. Varia-

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ACC NR: AR7000946

tions in cathode temperatures determine the instability of the oscillations observed. In pin type tubes, stable single-mode oscillations were obtained without filament adjustment by applying pulses. Tubes with slot output terminals always exhibited multifrequency. The frequency pulling is very slight using a mismatch load with a 5 to 7 VSWR in magnetrons with pin-type output terminals (less than 0.05-mc accuracy) or it does not exist at all. It is presumed that the oscillations obtained are basically purely internal electron oscillations of a single-mode "diotron" type. The mechanism of oscillations is decisive in establishing the oscillations observed, which is substantiated by results of experiments carried out on open-loop-flow magnetrons. A bibliography of 8 titles is included. [Translation of abstract] [DW]

SUB CODE: -09/

Card 2/2

С.И. 1. 1.

00055 Исследования в области техники связи с помощью
микрофонов. Журнал "Радиотехника", 1949, № 1, с. 118-21

См. также: № 21, 1945

BAYEVA, O.M.; SOBOLEV, G.I.

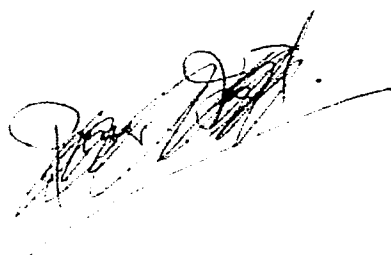
Unit for simultaneous determination of the viscosity and
electroconductivity of slags at high temperatures. Zav.
lap. 31 no.1:125-126 '65. (MIRA 18:3)

1. Nauchno-issledovatel'skiy institut metallurgii, Chelyabinsk.

SOBOLEV, G.K.

RAVICH, M.B.; KNORRE, G.F., professor, doktor tekhnicheskikh nauk, redaktor;
SOBOLEV, G.K., redaktor; ALEKSEYEVA, T.V., tekhnicheskii redaktor

[Simplified methods of computation in thermotechnics] Uproshchennaya metodika teplotekhnicheskikh raschetov. Moskva, Izd-vo Akademii nauk SSSR, 1955. 218 p. (MLRA 9:2)
(Heat engineering)

A handwritten signature in dark ink, appearing to be 'G.K. Sobolev', is written diagonally across the lower center of the page.

DOBOLIN, G. K.

(Power Institute, USSR Academy of Sciences, Moscow.)

"High Temperature Oxidation and Burning of Carbon Monoxide,"

paper submitted at the Sevetnth Intl. Symposium on Combustion - London and Oxford, England, 28 Aug - 3 Sep '58.

c - 3,600,830, 25 July 1958.

SOVIET 59 2 2324

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 2 p 13 (USSR)

AUTHOR: Sobolev G. K.

TITLE: On Measuring of Combustion Temperatures of Air Mixtures of Carbon Monoxide and Methane by an Optical Method (Ob izmerenii temperatur gorennya vozdukhnykh smesey okisi ugleroda i metana opticheskim sposobom)

PERIODICAL: V sb : Issled. protsessov gorennya. Moscow AN SSSR 1958 pp 110-112

ABSTRACT: The measurements of the concentration of combustion products in the radial direction in horizontal planes close to the cone of a Bunsen burner exhibit much irregularity. This indicates a probable nonuniformity of the temperatures in this direction. To measure the temperature of the central part of the cone of the burner finely dispersed NaCl solution was introduced into it and the temperature was measured by the method of the reflection of the spectral line D of the sodium. The burner had the shape of a pipe 10 mm in diam and 1000 mm long. At the distance of 600 mm from the nozzle exit section NaCl was introduced into the center of the jet through a thin tube with a 2 mm outer diam and an 0.8-mm inner diam. The 1-2 m/sec velocity of the gas flow

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Lab. for Intensification of Furnace Processes, Power Inst AS USSR.

SOV/137 50-2 2324

On Measuring of Combustion Temperatures of Air Mixtures of Carbon (cont.)

ensured its laminar character. The accuracy of measurement was 30-40°C and was verified by calculation of the theoretical temperature according to the composition of the combustion products withdrawn from the respective region of the flame.

M. M.

Card 2/2

CHEKALIN, E.K.; SOBOLEV, G.K.

Peculiarities of gas flow in laminar Bunsen flame. Inzh.-fiz.zhur.
no.4:72-75 Ap '58. (MIRA 11:7)

1.Energeticheskiy institut AN SSSR, g.Moskva.
(Flame)

SOBOLEV, G.K.

Investigation of high-temperature oxidation and burning of carbon
monoxide. Inzh.-fiz.zhur. no.5:34-45 My '58. (MIRA 12:1)

1. Energeticheskiy institut AN SSSR, g. Moskva.
(Carbon monoxide) (Oxidation) (Combustion)

SOBOLEV, G. K., Candidate Tech Sci (diss) -- "High-temperature oxidation and combustion of carbon monoxide". Moscow, 1959, published by the Acad Sci USSR. 15 pp (Acad Sci USSR, Power Engineering Inst im G. M. Krzhizhanovskiy), 175 copies (KL, No 24, 1959, 141)

S/170/60/003/03/24/034
B014/B007

11/5810

AUTHOR:

Sobolev, G. K.

TITLE:

The Combustion of Methane

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 3,
pp. 129 - 132

TEXT: The author says that a great number of papers has been published on the important fuel methane, but that nevertheless the burning process is insufficiently known. Reference is made to the paper by G. A. Barskiy and Ya. B. Zel'dovich (Ref. 1) in which the lean mixture $\text{CH}_4\text{-O}_2\text{-N}_2$ was investigated. Referring to the thermal diffusion theory for normal flame propagation, formula (4) for the standard component of the rate of flame propagation is derived. By investigation the combustion reaction, formula (5):

$u_n = \text{const.} \sqrt{(O_2)_{\text{eff}}^4}$ is derived for the standard component of the flame velocity. Here $(O_2)_{\text{eff}}$ is the effective concentration of oxygen in the reaction zone. This formula holds for the assumption that the molar concentration

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The Combustion of Methane

S/170/60/003/03/24/034
B014/B007

tration of CH_4 in the combustion zone is constant. The change of the molar concentration of CH_4 made an investigation of the dependence of the reaction rate on temperature necessary. It was shown in preparatory experiments that the temperature in the flame front differs from the normal combustion temperature only by 20-40°C. Instead of the maximum temperature, the measuring temperature in the central zone of the torch was therefore used in the calculations carried out here. In Fig. 1 the dependence of the flame height on the excess concentration of oxygen at a burning temperature of 2280°K is shown. Fig. 2 shows the dependence of the standard component of the velocity of the methane flame on the effective oxygen concentration in the reaction zone at various temperatures. Good agreement between the theoretical values may be observed. From the dependence of the combustion rate on the reciprocal temperature as shown in Fig. 3 conclusions are drawn as to an activation energy of the combustion process of $E = 31,400 \text{ cal/mcl.}$ There are 3 figures and 4 Soviet references.

ASSOCIATION: Energeticheskiy institut im. G. M. Krzhizhanovskogo AN SSSR,
g. Moskva (Institute of Power Engineering imeni
G. M. Krzhizhanovskiy of the AS USSR, City of Moscow)

Card 2/2

SOBOLEV, G.K., kand.tekhn.nauk [translator]; GOL'DENBERG, S.A.,
kand.tekhn.nauk, red.; SHEMANINA, V.N., red.; DOTSENKO, V.,
tekhn.red.

[Flames and chemical kinetics] Plamena i khimicheskaya
kinetika; sbornik statei. Moskva, Izd-vo inostr.lit-ry, 1961.
352 p. Translated from the English. (MIRA 15:2)
(Flame) (Chemical reaction, Rate of)

TRUTNEV, V.G.; KOCHENKOV, V.P.; KOZLOVSKIY, G.P.; SOBOLEV, G.K.

Efforts to control the freezing of ore at the Sokolovka-Sarday
Combine. Ger. zhur. no.5:74-75 My '65. (MIRA 18:5)

1. Otdeleniye Instituta gornogo dela Gosmetallurg-Komiteta, g.
Rudnyy (for Trutnev, Kochenkov). 2. Sokolovsko-Sardayskiy
kombinat (for Kozlovskiy, Sobolev).

ACC NR:

AR7000945

SOURCE CODE: UR/0275/66/000/011/A016/A016

AUTHOR: Sobolev, G. L.

TITLE: The maximal speed for setting a constant potential in a magnetron oscillator

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 11A112

REF SOURCE: Sb. Vopr. elektron. sverkhvysok. chastot. Vyp. 2. Saratov, Saratovsk. un-t, 1966, 102-115

TOPIC TAGS: magnetron, electric potential, potential rise time, magnetron oscillator

ABSTRACT: The assumption that the maximal relative rise time of the constant plate potential is equal to the rate of setting an hf potential makes it possible to estimate the former provided the latter is known. The rise time of the hf potential is calculated under certain assumptions for synchronized and stabilized magnetrons. When the ratio of the synchronizing hf potential to the output potential is $5 \cdot 10^{-2}$, rise time increases more than tenfold as compared to the

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45823-66 EWT(1) JM
ACC NR: AR6015965

SOURCE CODE: UR/0275/65/000/011/A020/A020

AUTHOR: Sobolev, G. L.

TITLE: Analysis of the frequency characteristics of a multicavity magnetron

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 11A119

REF SOURCE: Sb. Vopr. elektron. sverkhvysok. chastot. Vyp. 1. Saratov. Saratovsk.
un-t, 1964, 57-67

TOPIC TAGS: magnetron, frequency characteristic, electron potential

ABSTRACT: A representation for the nature of averaged electron phase trajectories in a cylindrical magnetron is used as the basis for an approximate calculation of the frequency characteristics of the magnetron under conditions of voltage retuning at high rf-potentials. It is found that retuning transconductance depends on the rf-potential. In the case where the number of electrons entering the interaction space is limited, there is only a slight change in the rf-potential and transconductance is constant. These conditions comprise voltage retuning. In all other cases transconductance is changed by rf-potential and characterizes electron frequency shift. Frequency pulling due to a mismatched load at constant anode voltage also depends on the change in rf-potential. M. R. [Translation of abstract]

SUB CODE: 09

Card 1/1

UDC: 621.385.64

L 12355-66 (12355-66) - JH
ACC NR: AP6014240

SOURCE CODE: UR/0109/66/011/005/0860/0869

AUTHOR: Bayburin, V. B.; Sobolev, G. L.

ORG: none

TITLE: Calculating space-charge fields in a plane-parallel magnetron ⁵⁰_B

SOURCE: Radiotekhnika i elektronika, v. 11, no. 5, 1966, 860-869

TOPIC TAGS: magnetron, space charge

ABSTRACT: An analytical solution is obtained for the space-charge field in a plane-parallel magnetron; the solution takes into account the specified electron "spoke" (stream) shape and specified bounds and holds true for any point of the interaction space. The transverse component of the electric field of the "spoke" space charge is determined. Triagonal, multi-trapezoid, and arbitrary shapes of the "spoke" are examined. Two extreme cases of zero boundary potential are considered: (a) zero potential approaching infinity and (b) zero potential at the "spoke" boundary. An exact solution is developed for the "a" case and an approximate solution for the "b" case. Orig. art. has: 5 figures and 42 formulas.

SUB CODE: 09 / SUBM DATE: 22Dec64 / ORIG REF: 004 / OTH REF: 004

UDC: 621.385.64.001.24:537.525.92

Card 1/1 ✓

ZOLOTUKHIN, V.F.; SHCHEPILOV, P.S.; SOBOLEV, G.P.

Fixed vibration screen with annular motion. Trudy KhPI 31 no.1:85-
90 '59. (MIRA 13:10)

(Vibrators)

SOBOLEV, G.P.; MITSEV, Yu.S.

Effectiveness of using rotary grinders for grinding clayey
materials. Stek. i ker. 18 no.6:37-40 Je '61. (MIRA 14:7)
(Grinding machines)
(Clay)

IZYUMSKIY, V.P., inzh.; SOBOLEV, G.P.

Round vibrating screens with peripheric loading of materials and their
design. Khim.mashinostr. no.2:5-8 Mr-Ap '63. (MIRA 16:4)
(Screens (Mining))

SOBOLEV, G.P., inzh.

Effect of the parameters of a rotary-vibratory (gyratory)
screen on the efficiency of its work. Stek. i ker. 20 no.6:
26-30 Je '63. (MIRA 16:6)

1. Khar'kovskiy politekhnicheskij institut imeni V.I. Lenina.
(Sieves)
(Ceramic industries—Equipment and supplies)

SOBOLEV, G.P., kand. tekhn. nauk; SKOMOROKHOV, A.A., inzh.

Device for the manufacture of feeler mechanisms. Stek. 1 ker.
22 no.4:43-44 Ap '65. (MIRA 18:5)

1. Khar'kovskiy politekhnicheskij institut (for Sobolev).
2. Khar'kovskiy plitochnyy zavod (for Skomorokhov).

ALIKOV, I.M., 1900.; POKH, V.Ye., 1901. techn. rank; CHOLIN, G.I., 1900.
techn. rank; SILETSKY, G.A., 1900.; JAKHIN, A.P., 1900.

Centrifugal mill for the grinding of clay materials. Stock. 1 set.
(MIRA 18:9)
12 no. 7427-33 31 1965.

1. Khar'kovskiy gos'tekhnicheskii institut imeni Lenina (for
Khar'kov, Kuzl. i. Stal.). 2. Khar'kovskiy pilotnyy zavod
(for Khar'kov, Stal.).

SOBOLEV, G.V.

"Some Problems of the Maneuverability of a Ship." Cand
Tech Sci, Leningrad Shipbuilding Inst, Leningrad, 1954. (KL, No
7, Feb 55)

SO: Sum. No. 631, 26 Aug 55- Survey of Scientific and Technical
Dissertations Defended at USSR Higher Educational Institutions
(14)

SOV/124-58-3-2927

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 3, p 54 (USSR)

AUTHOR: Sobolev, G. V.

TITLE: On the Problem of the Motion Astern of a Ship (K voprosu o zadnem khode sudov)

PERIODICAL: Tr, Leningr. korablestroit. in-ta, 1954, Nr 14, pp 98-103

ABSTRACT: The paper first analyzes a solution, as suggested by M. G. Vidonov [Zadnyy khod rechnykh sudov (Motion Astern of River Boats). Rechizdat, 1951] of a problem relative to the stability of the motion astern of ships. It is pointed out that the referenced work is basically faulty, because it is founded on incorrect equations. The results of such work are worthless in practice. The author further discusses in detail the qualitative differences between stability in problems regarding motion ahead and astern; he rederives the differential equations of the motion, on the basis of which a stability criterion for a ship engaged in motion astern is obtained and recommendations are formulated for the improvement of this quality for specific vessels.

Card 1/1

A. N. Shmyrev

SOV/124-58-1-694
Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 86 (USSR)

AUTHOR: Sobolev, G. V.

TITLE: Contribution to the Standardization of the Stability of Tugboats (K
voprosu o normirovanii ostoychivosti buksirov)

PERIODICAL: Tr. Tsent. n. -i. in-ta morsk. flota, 1956, Nr 7, pp 36-49

ABSTRACT: It is assumed that the process of a jerk in a towing hawser has the character of an accelerated motion. The author determines the limiting jerking speed by setting up a differential equation for the motion of the tugboat and solving it by a numerical method. The results are adduced in the form of graphs for various initial conditions; they permit one to find an expression for the maximum angle of heel during a jerk. By equating that angle of heel to a value that would be dangerous from the point of view of flooding (or capsizing) an expression for the limiting jerking speed can be obtained. The formula obtained comprises entrained-mass coefficient terms, which must be determined by solving the problem of the flow about an elliptical cylinder. The final formula for the limiting jerking speed contains a function which is dependent on the fastening point of the

Card 1/2

SOV/124-58-1-694

Contribution to the Standardization of the Stability of Tugboats

towing hook. A graph of that function shows that the limiting speed increases with an increasing abscissa and a decreasing z-coordinate of the hook. The formula for the limiting jerking speed obtained with due consideration of the accelerations actually taking place during such a motion differs from those obtained earlier through its consideration of the weight of the hawser, its degree of tightness, and a quantitatively different relationship relative to the fastening point of the towing hook.

Ye. V. Sukacheva

Card 2/2

BRADY, S.M., of F. B. DUNN, K.K.
Keweenaw Res. Inst.

"Application of the Results of Low-Aspect-Ration Wing Theory to the Solution
of Some Steering Problems,
paper submitted at Symposium on Behavior of Ship in a Seaway, Wageningen,
Netherlands, 7-10 Sep 57.

32-8-48/61

AUTHORS Zykov, D.D., Khlebnikova, V.V.
Sobolev, G.V.

TITLE Heating Devices for Laboratory Rectification Columns.
(Sposob obogreva laboratornykh rektifikatsionnykh kolonn.)

PERIODICAL Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 8,
pp. 995-995 (USSR)

ABSTRACT In order to obtain the most favorable a diabatic conditions
in the heating plant of rectification columns a new heating
system is suggested in this paper, which is characterized
mainly by the fact that the principal column as well as
its covering are made of the same material in order that
equal linear expansion of both be attained. The device is
described as follows: Its basic component is the boiler
upon which the rectrification column rests. In the upper
part of the column there is the column head with a conden-
ser and an outlet pipe for fractions with a straight-way
cock. The boiler receives its heat from the electric
heating coil, which is wound round the main column. The
outer encasing column also has a heating network. By
automatically switching on the two heating systems alter-
natingly a uniform heating of the entire rectification
column is warranted, i.e. for the case that the interior
column

CARD 1/2

32-8-48/61

- Heating Devices for Laboratory Rectification Columns.

receives more heat by rising vapors in the interior, it simultaneously expands to a greater extent than the exterior encasing column. This fact itself causes switching on of the heating network in the external encasement column, and the switching off of the interior heating, so that the difference in temperature is soon equalized. This arrangement of the heating order in the rectification column was found to be satisfactory.
There is 1 figure.

ASSOCIATION: Moscow Institute for the Construction of Machines Used in Chemical Industry
(Moskovskiy Institut khimicheskogo mashinostroyeniya).
AVAILABLE: Library of Congress.

CARD 2/2

Sobolev, G. V.

32-2-59/50

AUTHORS: Zykov, D. D. , Lytkin, I. A. , Sobolev, G. V. , Khlebnikova, V. V.

TITLE: A Device for Recording the Distillation Curve (Pribor dlya zapisi krivoy razgonki)

PERIODICAL: Zavodskaya Laboratoriya, 1959, Vol. 24, Nr 2, pp. 222 - 223 (USSR)

ABSTRACT: An automatic device recording the boiling temperature and the amounts of distilled substance in rectification columns was developed (according to WPK) at the institute mentioned below. The distillate flows into a container, which is in equilibrium on beam scales with weights (from an automatic apparatus). The weight of the distillate causes a lowering of the beam, which short-circuits a contact and thus causes the operation of a relay, which again starts off an automatic device. A paper slip begins to move, which is adjusted according to temperature by a thermocouple, the temperature being recorded on the slip. A galvanometer records the curve until the appliance released at the same time for the balancing of the weight

Card 1/2

52-2-39/60

A Device for Recording the Distillation Curve

re-establishes equilibrium and thus releases the trip-up contact. A figure showing the apparatus and a distillation curve (HK) is given. There are 2 figures, and 1 reference, which is Slavic.

ASSOCIATION: Moscow Institute of Chemical Machine-Building
(Moskovskiy institut khimicheskogo mashinostroyeniya)

AVAILABLE: Library of Congress
1. Distilling plants-Equipment

Card 2/2

10.4000
AUTHORS:

TITLE:

PERIODICAL:

ABSTRACT:

67588
SOV/179-59-5-6/41
Sobolev, G.V. and Fedayevskiy, K.K. (Moscow, Leningrad)
Application of the Theory of Wing of Small Aspect Ratio
to the Solution of Ship Controllability Problems

Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh
nauk, Mekhanika i mashinostroyeniye, 1959, Nr 5,
pp 27-33 (USSR)

The basic problem in the analysis of controllability in the steering of ships is the determination of forces arising on the ship's hull during its movement with an angle of drift and an angular velocity combined. No solution exists yet for the flow around a body taking part in such motion in a viscous liquid. Solutions exist for an ideal liquid. The only method for determining the forces on the hull is to solve a simplified substitution problem wherein the hull is replaced by a wing of small aspect ratio moving at an incidence equal to the drift angle in the presence of an angular velocity varying along the length of the ship. The span of the wing is twice the draught of the ship. Thus the water surface is considered to act as a wall, which is true at moderate speed when the Froude Number is below 0.2.

Card 1/3

67588

SOV/179-59-5-6/41

Application of the Theory of Wings of Small Aspect Ratio to the
Solution of Ship Controllability Problems

The chord is the hull length along the water line. Typical aspect ratios are in the range of 0.03 to 0.15. The hydrodynamic forces and moments are divided into those due to inertia, which appear in the ideal fluid theory, and those due to viscosity. The first type can be predicted with corrections due to the thickness of the profile. For the second type, account of thickness cannot yet be taken in an exact solution but a correction factor has already been introduced by the present authors in their previous work. The force and moment coefficients for the various components are formulated and it is shown that they are non-linear functions of the incidence and the angular velocity. The most convenient presentation is obtained when the force and moment coefficients are referred to the product of incidence and angular velocity. The steering controllability is derived by determining the radius of steady turning. One of the conclusions concerns the problem whether steady turning can be performed with a neutral rudder. In the light of the linear theory this is possible only in a dynamically

Card 2/3

67588

SOV/179-59-5-6/41

Application of the Theory of Wings of Small Aspect Ratio to the
Solution of Ship Controllability Problems

neutral ship. The well known property of dynamically
unstable ships (by the linear theory) to enter with
neutral rudder into a steady turn is entirely due to
the nonlinearity of the hydrodynamic characteristics of
the ship. There are 4 figures and 5 references, 2 of
which are Soviet, 2 English and 1 German. X

SUBMITTED: February 5, 1958

Card 3/3

SOBOLEV, G.V., kand.tekhn.nauk

Calculating the maneuverability of ocean-going cargo ships.
Trudy TSNIMF 7 no.35:49-62 '61. (MIRA 14:2)
(Ship resistance)

FEDIAYEVSKIY, Konstantir Konstantinovich; SOBOLEV, Gennadiy
Vasil'yevich; BASIN, A.M., prof., doktor tekhn. nauk,
retsensent; FIRSOV, G.A., doktor tekhn.nauk, nauchn.
red.; KUSKOVA, A.I., red.; SHISHKOVA, L.M., tekhn. red.

[Maneuverability of a ship] Upravliaemost' koroblia. Le-
ningrad, Sudpromgiz, 1963. 374 p. (MIRA 16:8)
(Hulls (Naval architecture))
(Stability of ships)

SOBOLEV, I. (Al'met'yevsk, Tatarskaya ASSR)

Main problem is educational work. Pozh.delo 4 no.12:12 D '58.
(MIRA 11:12)

(Fire prevention--Study and teaching)

SOBOLEV, I.A., inzhener.

Center of progressive practices. Sudostroenie 23 no.1:54-58 Ja '57.

(MIRA 10:10)

(Electric engineering--Exhibitions)

SOBOLEV, I.A., inzh.

Repairing d.c. propulsion motors and generators on the ship. Sudostroenie
26 no.9:53-55 S'60. (MIRA 13:10)
(Ship propulsion, Electric) (Electric motors--Maintenance and repair)
(Electric generators--Maintenance and repair)

L 29006-66 EWT(m)/EWG(m)/ETC(f)/EPF(n)-2 WW

ACC NR: AP6018877

SOURCE CODE: UR/0240/65/000/004/0079/0080

AUTHOR: Sobolev, I. A. (Engineer); Khomchik, L. M. (Engineer)

ORG: none

TITLE: Combined burial of solid and liquid radioactive waste

SOURCE: Gigiyena i sanitariya, no. 4, 1965, 79-80

TOPIC TAGS: radioactive waste disposal, reinforced concrete, radioactive waste disposal equipment

ABSTRACT: The authors point out the inefficiency and high cost of separate burial of liquid and solid radioactive waste in underground tanks. Liquid waste is buried in 200 cubic meter metal-lined concrete tanks, a very expensive method for disposal of $n \cdot 10^{-6}$ - $n \cdot 10^{-4}$ curies per liter. Solid waste is buried in 600 cubic meter reinforced concrete tanks, but 45-50% of the capacity is taken up by the air space between the solid objects. The authors propose making a cement solution with the liquid waste and then using this solution to fill the interstices between the objects of solid waste, thus forming a concrete monolith inside the disposal bunker. The cement silo and mixer are located directly over the tank, and liquid waste is piped directly from a tank truck into the mixer. In using this method the 600 cubic meter bunkers used for solid waste are sectioned into compartments with a capacity of 50-100 cubic meters. The method gives better protection against leakage and migration of radioactive substances, and it reduces the cost of storing liquid waste by 40-50%. Orig. art. has: 2 figures. [JPRS]

SUB CODE: 18, 13 / SUBM DATE: 04 Feb 64 / ORIG REF: 001
Card 1/1 UDC: 628.54:628.58+628.58:628.54+614.898.5:628.54

SOBOLEV, I.D.; SHTEYNBERG, D.S.

Boris Mikhailovich Romanov, 1893-1956; obituary. Mat.po geol.i
pol.iskop.Urala no.6:3-12 '58. (MIRA 12:10)
(Romanov, Boris Mikhailovich, 1893-1956) /
(Ural Mountains--Geology)

SOBOLEV, I.D.

Basic characteristics of the magmatic activity in the Urals. Biul.
MOIP.Otd.geol. 35 no.4:132-133 J1-Ag '60. (MIRA 14:4)
(Ural Mountains---Magma)

SHTEYNBERG, D.S., otv. red.; IGUMNOV, A.N., red.; PLOTNIKOV, S.N., red.;
SOBOLEV, I.D., red.; FAVORSKAYA, A.P., red. izd-va; SEREDKINA,
N.F., tekhn. red.

[Guidebook for the Sverdlovsk excursion] Putevoditel' Sverdlov-
skoi ekskursii. Sverdlovsk, 1961. 135 p. (MIRA 14:8)

1. Ural'skoye petrograficheskoye soveshchaniye, 1st.
(Sverdlovsk region—Geology—Field work)

LIDER, I.I.; LERVASS, V.A., otv.red.; MORRUSHIN, K.V., red.; YERMAKOV, N.P., red.; KOROL'KOV, A.A., red.; KOSHCHENKOV, K.Ye., red.; NECHAYEV, P.V., red.; POYARKOV, M.A., red.; PURKIN, A.V., red.; SOBOLEV, I.D., red.; TARKHANEYEV, B.P., red.

[Geology of the Northern Sos'ta brown coal basin.] Geologiya Severosos'vinskogo burougol'nogo basseina. Moskva, Nedra, 1964. 144p. (Materialy po geologii i poleznym iskopaemykh Urala, no.11) (MIRA 18:4)

1951

AMS/A4B
SOBOLEV, I. G.

211 42
Sobolev, I. G. "Ulovniia vysota" v aerologicheskikh telegrammakh. ["Equivalent altitude" in aerological telegrams.] *Meteorologiya i Gidrometeorologiya*, No. 370-71, 1947. 3 tables, 11 equations. DWB The paper contains an account of the report Dr. P. I. Kossin presented at the meeting of the Commission on Aviation Meteorology in Paris in June 1946 about a system and for altitude measurement in aviation and meteorology. 1 example for corrections in aviation and meteorology. Computation tables, Equivalent height, Aeronautical meteorology. 1 K

ASU S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

1951 04 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1951 04 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1951

AMS/ATB
SOBOLEV, I. G.

210 15
Sobolev, I. G. Soyeshchanna Meridunarodnat Meteorologicheskoi Komissii v Parizhe v ianvare-iyule 1946 g. [Meeting of the International Meteorological Commission in Paris in June-July 1946]. *Meteorologicheskii Zhurnal*, No. 3, 8-12, 1947. DWH. Report on the decisions of the meeting including the new code for transmission of observations from ground stations which is presented herewith. The activities connecting the U.S.S.R. and in which representatives of the Soviet Hydrometeorological Society participated are described. European Regional Commission, Commission on Aeronomical Meteorology and Synoptic Commission. Subject Heading: I.M.O. Conference, Synoptic codes, U.S.S.R. (U.S.A.).

ASSOCIATED METEOROLOGICAL LITERATURE CLASSIFICATION

SOBOLEV, I G.

✓ Sobolev, I. G., Meteorologicheskie issledovaniia v Antarktike. 17
in the Antarctic. Meteorologiya i Gidrologiya, Leningrad, No. 1:60-61, Jan. 1956. DWB, 4
DLC—The Soviet program of meteorological research in Antarctica in connection with the
IGY is described. This includes weather studies, aerological research, energy balance at the
earth's surface, etc. Soviet institutions participating in the program and the names of in-
dividual participants are mentioned. Subject Headings: 1. Russian participation in IGY
2. Meteorological research 3. U.S.S.R.—I.L.D. 12A //

hew

SOBOLEV, I.I. [deceased]; VOROBTSOV, V.I.; GORELIK, S.L., redaktor;
BOBRŌVA, Ye.N., tekhnicheskiiy redaktor

[Urological diseases requiring immediate surgery] Neotloshnaia
khirurgicheskaya urologiya. Moskva, Gos. izd-vo meditsinskoy lit-
ry, 1954. 162 p. (MLRA 7:10)
(Genitourinary organs--Diseases)

SOBOLEV, I.M.: SIMANKOV, G.M., otv. red.; KOVALEV, O.I., red.; KOGAN,
I.B., red.; LOVYAGIN, N.V., red.; NAZAROVA, N.V., red.;
GOL'DSHTEYN, L.Ye., red.; DURASOVA, V.M., tekhn.red.

[Guidebook to the city of Kuybyshev] Putevoditel' po gorodu
Kuibyshevu. Kuibyshev, Kuibyshevskoe knizhnoe izd-vo, 1962.
319 p. (MIRA 16:9)

(Kuybyshev--Guidebooks)

SOBOLEV, I. N.

36210 Bor'ba s zanosami na lesovoznykh dorogakh. Les. prom-st', 1949, No. 11, S. 9

SO: Letopis' Zhrunal'nykh Statey, No. 49, 1949

SOBOLEV, I.N., professor.

New apartment building on Sadovaia-Triumfal'naia Street. Gor.
khoz.Mosk. 24 no.1:27-28 Ja '50. (MLRA 7:11)

1. Chlen-korrespondent Akademii arkhitektury SSSR.
(Moscow--Apartment houses) (Apartment houses--Moscow)

YEMEL'YANOV, V.S., otv.red.; BARDIN, I.P., red.; VINOGRADOV, A.P., red.;
 GOL'DANSKIY, V.I., red.; GULYAKIN, I.V., red.; DOLIN, P.I., red.;
 YEFREMOV, D.V., red.; KRASIN, A.K., red.; LEBEDINSKIY, A.V., red.;
 MINTS, A.L., red.; MURIN, A.N., red.; NIZE, V.E., red.; NOVIKOV,
 I.I., red.; SEMENOV, V.F., red.; SOBOLEV, I.N., red.; BAKHAROVSKIY,
 G.Ya.; nauchnyy red.; BERKOVICH, D.M., nauchnyy red.; DANOVSKIY,
 N.F., nauchnyy red.; DELONE, N.N., nauchnyy red.; KON, M.A.,
 nauchnyy red.; KOPYLOV, V.N., nauchnyy red.; MANDEL'TSVAYG, Yu.B.;
 MILOVIDOV, B.M., nauchnyy red.; MOSTOVENKO, N.P., nauchnyy red.;
 MURINOV, P.A., nauchnyy red.; POLYAKOV, I.A., nauchnyy red.;
 PREOBRAZHENSKAYA, Z.P., nauchnyy red.; RABINOVICH, A.M., nauchnyy
 red.; SIMKIN, S.M., nauchnyy red.; SKVORTSOV, I.M., nauchnyy red.;
 SYSOYEV, P.V., nauchnyy red.; SHORIN, N.A., nauchnyy red.;
 SHREYBERG, G.L., nauchnyy red.; SHTEYNMAN, R.Ya., nauchnyy red.;
 KOSTI, S.D., tekhn.red.

[Concise atomic energy encyclopedia] Kratkaia entsiklopediia
 "Atomnaia energiia." [___Tables of isotopes (according to published
 data available at the beginning of 1958)] ___Tablitsa izotopov. (po
 dannym, opublikovannym k nachalu 1958. 12 p. Gos. nauch. izd-vo
 "Bol'shaia sovetskaia entsiklopediia," 1958. 610 p. (MIRA 12:1)

1. Sotrudniki Bol'shoy Sovetskoy Entsiklopedii (for Bakharovskiy,
 Berkovich, Danovskiy, Delone, Kon, Kopylov, Mandel'tsvayg, Milo-
 vidov, Mostovenko, Murinov, Polyakov, Preobrazhenskaya, Rabinovich,
 Simkin, Skvortsov, Sysoyev, Shorin, Shreyberg, Shteynman).
 (Atomic energy)

LEPP, R. [Lapp, Ralph E.]; RUBAL'SKIY, B.G. [translator]; ROGINKO, Yu.Ya.
[translator]; SHVEYTSER, A.D. [translator]; SOBOLEV, I.N.,
general-mayor, red.; DEYEV, M.N., red.; KHOMYAKOV, A.D., tekhn.red.

[Atoms and people] Atomy i liudi. Pod red. I.N.Soboleva. Moskva,
Izd-vo inostr.lit-ry, 1959. 286 p. (MIRA 12:8)
(Atomic energy)

Субботин, Л.С.

Clinical aspects and treatment of trichinosis. Sov. med. 28 no.5:
143-144 My '65. (MIRA 18:5)

1. Kafedra Infektsionnykh Bolezney (nachal'nik - prof. P.A.
Allsov) Voenno-meditsinskoy ordona Lenina akademii imeni Kirova,
Leningrad.

SOBOLEV, I. P.

Transthoracic abscessonecrotomy in tuberculous lesion of the
thoracic segment of the spine. Khirurgiya 38 no.5:56-59 My '62.
(MIRA 15:6)

1. Iz Krasnodarskogo krayevogo protivotuberkuleznogo dispansera
(glavnyy vrach - zasluzhennyy vrach RSFSR A. I. Ukrainchenko)

(SPINE--TUBERCULOSIS)
(CHEST--SURGERY)

ACC NR: AP6031522

SOURCE CODE: UR/0292/66/000/009/0021/0023

AUTHOR: Meyerovich, Ye. A. (Engineer); Palastin, L. M. (Candidate of technical sciences); Platonov, A. M. (Candidate of technical sciences); Popov, K. K. (Engineer); Serebryanik, L. B. (Engineer); Sobolev, I. S. (Engineer); Syzrantsev, V. I. (Engineer)

ORG: none

TITLE: Disk-type brushless synchronous generator

SOURCE: Elektrotehnika, no. 9, 1966, 21-23

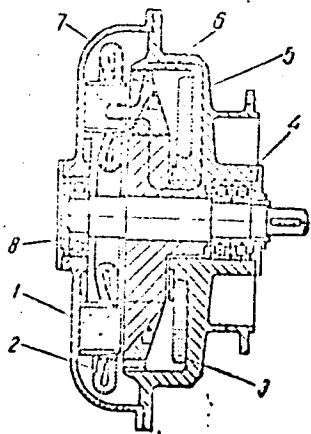
TOPIC TAGS: synchronous generator, electric machine, brushless generator, electric generator, magnetic circuit

ABSTRACT: A general description of a new design (Author's Certificate 169656, Bul. izobr., 1965, no. 7) of disk-type synchronous generator (see figure) is presented; the generator was developed at VNIEM. This design is an improvement over a previous "externally-closed-magnetic-circuit" construction (VZP). Design features and some characteristics of both are compared. These conclusions are offered: (1) The new design has a smaller weight and axial length than other types of brushless synchronous generators; (2) The new rotor has high mechanical strength;

UDC: 621.313.322

Cord 1/2

ACC NR: AP6031522



its poles are not subjected to bending forces (as is the case in claw-type construction); (3) The new construction is stiff and has good heat removal and ventilation conditions. "Cand. Techn. Sc. G. N. Fridman, Engineers Ye. V. Kel'tseva, E. I. Sagalov, V. P. Pyatkov, N. I. Shcherbakov, S. K. Eytminovich, and others took part in developing the design and manufacturing practices of the new generator." Orig. art. has: 6 figures and 1 table.

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 004

Card 2/2

SOBOLEV, I.V.

Eliminate violations of safety regulations in enterprises of the
Al'met'evneft'. Bezop.truda v prom. 4 no.11:36 N '60.
(MIRA 13:11)

1. Instruktor voyenizirovannoy pozharney chasti, g. Al'met'yevsk.
(Al'met'evsk--Oil fields--Safety measures)

L 18029-66 FBD/EWT(1)/EEC(k)-2/T/EWP(k)/EWA(h) IJP(c) WG/WW/GG
ACC NR: AP6007012 SOURCE CODE: UR/0051/66/020/002/0342/0344

AUTHOR: Cheremiskin, I. V.; Makeyev, V. S.; Sobolev, I. V.

ORG: none

TITLE: Experimental determination of the light amplification factor in a gas discharge

SOURCE: Optika i spektroskopiya, v. 20, no. 2, 1966, 342-344

TOPIC TAGS: gas discharge, gas laser, laser emission, helium neon laser

ABSTRACT: The authors study the coefficient of light amplification in a gas discharge using a source with a continuous emission spectrum for modulating the discharge and a receiver consisting of a spectroscope, a photomultiplier, and a synchronous detector. A brief description of the experimental equipment is given. The intensity of spontaneous emission on the line being studied was measured and used as the initial value for the signal reading. The light source was then switched on and amplified by population inversion in the discharge tube or attenuated in the absence of population inversion. For small amplification factors (or absorption coefficients) the change in the indicator readings is proportional to the amplification

Card 1/2

UDC: 621.375.9 : 534 2

L 18029-66

ACC NR: AP6007012

factor (or absorption coefficient). The amplification factor was measured with an absolute error of approximately 0.4%. The measurements were made in a helium-neon gas discharge. The pressure in the discharge tube was held at approximately 3.5 mm Hg with a helium:neon partial pressure ratio of 8:1. The power of the high frequency discharge was approximately 250 w. The tabulated results indicate lines which may be used for laser emission. "In conclusion, the authors are grateful to L. N. Deryugin for interest in the work." Orig. art. has: 1 figure, 1 table. [14]

SUB CODE: 20/ SUBM DATE: 10May65/ ORIG REF: 003/ OTH REF: 003/ ATD PRESS: 4212

Card 2/2 vmb

SOBOLEV, I.V., aspirant

Effect of log barking on the fineness and precision of frame sawing.
Nauch. trudy TSNIIMOD no.11:48-65 '61. (MIRA 17:9)

SOBOLEV, I.V.

Increase the volume of deliveries by means of sawing debarked logs. Der.prom. 11 no.3:17-18 Mr '62. (MIRA 15:2)

1. Leningradskaya lesotekhnicheskaya akademiya im. S.M. Kirova.

(Lumbering)

SOBOLEV, I.V.

Cutting modulus in sawing unbarked and barked logs with a frame
saw. Der. prom. 12 no.1:13 Ja '63. (MIRA 16:5)
(Saws)

SOBOLEV, I.V., kand. tekhn. nauk

Barking saw logs increases the durability of frame saws. Ser.
prom. 13 no.8:3-4 Ag '64.

(MIRA 17:11)

1. Kareli'skiy proyektnyy i nauchno-issledovatel'skiy institut
lesnoy i derevoobrabatyvayushchey promyshlennosti.

USSR / Farm Animals. Honey Producing Bees.

U-11

Abs Jour : Ref Zhur - Biologiya, No 16, 1957, 72235

Author : Sobolev, K.

Title : The Breeding of Bees

Orig Pub : Zemledelie i zhivotnovodstvo Moldavavii, 1956, No 10,43

Abstract : In Kishinev, the Moldavian Government bee breeders, in 1955, obtained 1,600 fertile queen bees and 207 "otvodkov". The native bees represented a mixture of the South Ukrainian with a considerable presence of the Italian bee's blood. Since 1950, the native bee was crossed with the grey mountainous and by selection as to the biological and economic factors, a new stable species of bees was obtained. These bees begin to work at the temperature of 7-8 degrees C, are active, do little swimming, are highly resistant to disease, peace-loving, and produce wet honey. The crossing with the Kabakhtapin bee proved to be unstable, particularly towards nosematosis.

Card : 1/1

- 81 -

SOBOLEV, K.A. (deceased); FRIDLYAND; I.G.; SHEBALIN, O.D.

Organization of scientific prospective fishery surveys in the
Atlantic Ocean. Trudy sov. Ikht. kom. no.10:243-244 '60.
(MIRA 13:10)

1. Baltiyskiy nauchno-issledovatel'skiy institut morskogo
rybnogo khozyaystva i okeanografii-(BaltNIRO).
(Atlantic Ocean--Fisheries--Research)

SOBOLEV, K.A.

Welded flasks made of rolled shapes. Lit.proizv. no.9:20-21
S '62. (MIRA 15:11)

(Foundries--Equipment and supplies)

SOBOLEV, K.A.

Standardization of sounding equipment. Standartizatsiia 28
no.7:38-40 J1 '64. (MIRA 17:11)

SOBOL'V, K.A., inzh.

Calculation of gating systems. Lit. proizv. no.11:
45-46 N '65. (MIRA 18:12)

SOBOLEV, K.G.

Some problems in X-ray diagnosis of mitral defects. Trudy LPMI 31 no.2:
409-413 '63. (MIRA 17:10)

1. Iz rentgenologicheskogo otdeleniya Ob"yedinennoy bol'nitsy imeni
Kuybysheva, Leningrad.

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Study of X-ray data and heart dimensions following ligation of the
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Vrach.delo no.9:943-945 S'58 (MIRA 11:10)

1. Kafedra fakul'tetskoy terapii (zav. - prof. A.A. Kedrov) i
kafedra rentgenoradiologii (zav. - prof. B.M. Shtern) Leningradskogo
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(ILIAC VEINS---LIGATURE)
(HEART FAILURE)

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Roentgenokymographic and volumetric changes of the heart following therapy of cardiac insufficiency by ligation of the external iliac veins. Trudy LSGMI 40:94-99 '58.

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1. Fakul'tetskaya terapevticheskaya klinika Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. klinikoy - prof.A.A.Kedrov) i Kafedra rentgenologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof.B.M.Shtern.

(CONGESTIVE HEART FAILURE, surgery,

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(VEINS, ILIAC, surgery,

ligation in congestive heart failure, postop. x-ray kymography & heart volume (Rus))

(KYMOGRAPHY, in var. dis.

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tekhnicheskikh nauk, retsenzent; SOBOLEV, L.A., inzhener, retsenzent;
BUSHUYEV, N.M., kandidat tekhnicheskikh nauk, redaktor; SHABASHOV, A.P.,
kandidat tekhnicheskikh nauk, redaktor.

[Repair of agricultural machinery] Remont sel'skokhoziaistvennykh
mashin. Sverdlovsk, Gos. nauchno-tekhn. izd-vo mashinostroit. i
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(Agricultural machinery--Repairing)

KURATOV, Aleksey Ivanovich; ALEKSEYEV, G.P., inzh., red.; BUSHUYEV, N.M.,
kand.tekhn.nauk, red.; GUTMAN, I.M., inzh., red.; KUZ'MOV, N.T.,
inzh., red.; PICHAK, F.I., kand.tekhn.nauk, red.; POLKANOV, I.P.,
kand.tekhn.nauk, red.; SOBOLEV, L.A., inzh., red.

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75 p.

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PICHAK, Fedor Ivanovich, kand.tekhn.nauk; ALEKSEYEV, G.P., inzh., red.;
KUZ'MOV, N.T., inzh., red.; PYATETSKIY, B.G., inzh., red.;
PLAKSIN, V.N., inzh., red.; SOBOLEV, L.A., inzh., red.;
IGNAT'YEV, M.G., agronom, red.; MARCHENKOV, I.A., tekhn.red.

[Checking parts in repairing tractors and agricultural machinery]
Kontrol' detalei pri remonte traktorov i sel'skokhoziaistvennykh
mashin. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'nykh
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(Tractors--Maintenance and repair)
(Agricultural machinery--Maintenance and repair)

GUTMAN, Iosif Moiseyevich; PICHAK, Fedor Ivanovich; RABOVSKIY, A.V., inzh.,
retsenzent; SOBOLEV, L.A., inzh., retsenzent; BUSHUYEV, N.M.,
kand.tekhn.nauk, red.; DUGINA, N.A., tekhn.red.

[Tractors and motor vehicles; manual for workers of collective
farms] Traktory i avtomobili; spravochnik kolkhoznogo rabotnika.
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163 p. (MIRA 13:9)

(Motor vehicles)

I 08097-67 EWP(j)/EWP(k)/EWT(d)/EWT(m)/EMP(w)/EMP(v)/EMP(t)/ETI IJP(c)
 ACC NR: AP6029959 EM/RM/WW/JD/HM SOURCE CODE: UR/0413/66/000/015/0145/0145 51/13
 INVENTOR: Grishin, G. N.; Maksimov, V. P.; Sobolev, N. A.; Khammatov, V. K.
 ORG: none
 TITLE: A device for bonding ¹⁶honeycomb fillers to ¹⁶aircraft skin. Class 62, No. 184626
 SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 145
 TOPIC TAGS: ²⁴adhesive bonding, ¹⁶honeycomb structure, ~~aircraft industry~~ *airframe com-
ponent, hydraulic equipment*
 ABSTRACT: An Author Certificate has been issued for a device for cementing honey-
 comb fillers to aircraft skin. It consists of a housing with a cover, a recess
 for mounting cemented parts, a hinge with a pin catch for fastening parts, a hydraulic
 elevator, sleeves for carrying pressurized gas, and reduction valves. For higher
 efficiency this device is equipped with sealed-membrane compartments which hold
 pressurized gas and with an electric heater which, at the given time, polymerizes
 the glue. [SA]
 SUB CODE: 01, 13, 11/ SUBM DATE: 31May65
 Card 1/1 *h2* UDC: 629.135/138

SOBOLEV, L.G.

Efficient selection of the correlation of parameters of differentiating units having inertia meters. Izv.tekh. no.8:15-18 Ag '60.
(MIRA 13:9)

(Measuring instruments)

SOBOLEV, L.G., inzh.

Charateristics of marine boilers with internal steam cooling
systems. Sudostroenie 26 no.8:30-34 Ag '60. (MIRA 13:10)
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Cand Tech Sci - (diss) "Study of problems of the automatic control of temperature of steam in ship boiler installations." Leningrad, 1961. 14 pp; (Ministry of Maritime Affairs, Leningrad Higher Naval Engineering Establishment imeni Admiral S. O. Makarov); 150 copies; price not given; list of author's works on pp 13-14 (11 entries); (KL, 6-61 sup, 226)